Subject: Informatics Practices (065)   **Topic:** Iterative Statement   **Lab Worksheet No.:** 6

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Write a Python program:

For Loop

1. To print the multiplication table of a number.

2. To print the sum of first 10 natural numbers.

3. To print the Fibonacci series of first 20 elements.

4. To find the sum of series: $S=1+x+x^2+x^3+\ldots\ldots+x^n$

5. To display all even numbers between 1-100.

6. To accept a name and display every character separately.

While Loop

7. To reverse a number.

8. To calculate and print the sum of even and odd integers of first n natural numbers.

Nested Loop

9. To check whether the entered number is Palindrome or not.

10. To accept a number and find out whether it is a perfect number or not.

11. To display all the prime numbers within an interval.

12. To print the following patterns:

i)	A	ii)	*	iii)	5 4 3 2 1	iv)	1
	B C		* *		5 4 3 2		1 3
	D E F		* * *		5 4 3		1 3 5
	G H I J		* * * *		5 4		1 3 5 7
	K L M N O		* * * * *		1		1 3 5 7 9